U. S. Application No. 10/717,865 Attorney Docket No. 2003B005/2 Reply to Final Rejection of September 14, 2006 Response dated October 5, 2006

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Listing of Claims

Claims 1-28 (Cancelled).

- 29. (Previously amended) A copolymer composition comprising a diene-modified polypropylene random copolymer having propylene units; diene units, derived from 2-methyl-1.5-hexadiene or α, internal, non-conjugated diene monomers; from 0.0 wt% to [[20]] 2.0 wt% ethylene units; and a heat fusion of 25 J/g or more.
- 30. (Original) The copolymer composition of claim 29 in which the diene units derived from α, internal non-conjugated diene monomers are present in the polypropylene copolymer in an amount of from 0.0005 mol% to 10 mol%.
- 31. (Original) The copolymer composition of claim 29 in which the diene units derived from α, internal non-conjugated diene monomers are present in the polypropylene copolymer in an amount of from 0.005 mol% to 1 mol%.
- 32. (Previously amended) The copolymer composition of claim 29, in which the α, internal non-conjugated diene monomer is selected from the group consisting of 2 methyl 1,5 hexadiene and 7-methyl-1,6-octadiene.
- 33. (Previously amended) The polymer composition of claim 29, in which the polypropylene copolymer has a crystallization temperature (Tc) of 25 °C or more.
- 34. (Previously amended) The polymer composition of claim 29, in which the polypropylene copolymer has a crystallization temperature (Tc) of 50 °C or more.
- 35. (Previously amended) The polymer composition of claim 29, in which the polypropylene copolymer has a crystallization temperature (Tc) of 75 °C or more.
- 36. (Previously amended) The polymer composition of claim 29, in which the <u>poly</u>propylene copolymer has a crystallization temperature (Tc) of 110 °C or more.

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- 37. (Previously amended) The polymer composition of claim 29, in which the polypropylene copolymer has a crystallization temperature (Tc) of from 25 °C to 115 °C.
- 38. (Previously amended) The polymer composition of claim 29, in which the polypropylene copolymer has a melting point (Tm) of 50 °C or more.
- 39. (Previously amended) The polymer composition of claim 29, in which the polypropylene copolymer has a melting point (Tm) of 75 °C or more.
- 40. (Previously amended) The polymer composition of claim 29, in which the polypropylene copolymer has a melting point (Tm) of 100 °C or more.
- 41. (Previously amended) The polymer composition of claim 29, in which the polypropylene copolymer has a melting point (Tm) of 125 °C or more.
- 42. (Previously amended) The polymer composition of claim 29, in which the polypropylene copolymer has a melting point (Tm) of 165 °C or more.
- 43. (Previously amended) The polymer composition of claim 29, in which the <u>polypropylene</u> copolymer has a melting point (Tm) of from 50 °C to 165 °C.
- 44. (Previously amended) The polymer composition of claim 29, in which the polypropylene copolymer has a melt flow rate of 0.01 dg/min or more.
- 45. (Previously amended) The polymer composition of claim 29, in which the polypropylene copolymer has a melt flow rate of 0.1 dg/min or more.
- 46. (Previously amended) The polymer composition of claim 29, in which the polypropylene copolymer has a melt flow rate of 0.5 dg/min or more.
- 47. (Previously amended) The polymer composition of claim 29, in which the <u>polypropylene</u> copolymer has a melt flow rate of 0.7 <u>dg/min</u> or more.

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- 48. (Previously amended) The polymer composition of claim 29, in which the polypropylene copolymer has a melt flow rate of 1.0 dg/min or more.
- 49. (Previously amended) The polymer composition of claim 29, in which the polypropylene copolymer has a melt flow rate of 1.5 dg/min or more.
- 50. (Previously presented) The copolymer composition of claim 29 in which the diene units derived from 2-methyl-1,5-hexadiene are present in the polypropylene copolymer in an amount of from 0.0005 mol% to 10 mol%.
- 51. (Previously presented) The copolymer composition of claim 29 in which the diene units derived from 2-methyl-1,5-hexadiene are present in the polypropylene copolymer in an amount of from 0.005 mol% to 1 mol%.
- 52. (New) A copolymer composition comprising a diene-modified polypropylene random copolymer having propylene units; diene units, derived from 2-methyl-1,5-hexadiene or α, internal, non-conjugated diene monomers; from 0.0 wt% to 2.0 wt% ethylene units; and exhibiting a heat fusion of 25 J/g or more and a branching index of less than 1.0.